

# Omni Orlando, ChampionsGate, Florida May 1-5, 2022

**Conference Supporters** 





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SUNDAY• MAY 1 • 2022

3:00 – 7:00 p.m.	Registration	International Ballroom Foyer
7:30 – 9:30 p.m.	Welcome Reception	Shallow Pool
	Sponsored by Our Conference Supporters	



	MONDAY • MAY 2 • 2022	
7:30 a.m.	Continental Breakfast Registration	Rotunda & Ballroom Commons International Ballroom Foyer
8:30 a.m.	<b>Welcome and Introduction</b> Richard N. Dalby, Ph.D. Professor, School of Pharmacy University of Maryland, Baltimore, Maryland	National Ballroom
8:45 a.m.	<b>Presentation of Charles G. Thiel Award</b> Michael Hindle, Ph.D. Professor, School of Pharmacy Virginia Commonwealth University, Richmond, Virg	National Ballroom ginia
9:00 a.m.	PLENARY PRESENTATION Sponsored by Our Conference Supporters	National Ballroom
	Moderator: Joanne Peart, Ph.D.	
	<i>Is the Climate Right for a New pMDI Propellant?</i> John N. Pritchard, Ph.D., Inspiring Strategies, Leicester, United Kingdom	
10:00 a.m.	REFRESHMENTS	International Ballroom
10:30 a.m 12:00 p.m.	SESSION 1: Focus on Therapeutics New Tools, Therapies & Technologies	National Ballroom
	Moderator: Peter R. Byron, Ph.D.	
10:30 a.m.	Physiologically Relevant Microfluidic Platforms for High Throughput Preclinical Development Hui X Ong, Ph.D., Macquarie University and Woolcock Institute of Me Sydney, Australia	
11:00 a.m.	<i>Pivoting Research to Fight COVID-19:</i> <i>Stabilizing and Delivering Antivirals, Antibodies an</i> <i>using Thin Film Freezing</i> Robert O. Williams III Ph.D., The University of Texas at Austin, Austin, Texas	nd Vaccines
11:30 a.m.	Adoption and Implementation of Respiratory Digit Solutions Post-Pandemic Mayur Patel M.Eng., PA Consulting, Melbourn, United Kingdom	tal Health



MONDAY • MAY 2 • 2022			
12:00 p.m 2:00 p.m.	Posters and Exhibition "Grab and Go" Lunch	International Ballroom	
2:00 p.m 3:00 p.m	SESSION 2: Nasal Spotlight New Tools to Streamline Nasal Product Approval	National Ballroom	
	Moderators: Julie Suman, Ph.D. and Stephen Shrewsbur	ry, MB, ChB	
2:00 p.m.	Leveraging In Vitro Bioequivalence Tests for Locally-Acti Sprays with Three Anatomically-Correct Replicas of Hun Representing Intersubject Variability Laleh Golshahi, Ph.D., Virginia Commonwealth University, Richmond, Virginia		
2:30 p.m.	<i>Evaluating Particle Size Differences of Suspension-Based</i> <i>Through In Vitro and Pharmacokinetic Approaches</i> Günther Hochhaus, Ph.D., University of Florida, Gainesville, Florida	d Nasal Sprays	
3:00 p.m	SESSION 2 ENDS • REFRESHMENTS	International Ballroom	
3:30 p.m 5:00 p.m.	SESSION 3: Posters on the Podium Moderators: Daniela Traini, Ph.D. and Serena Bonasera, R Poster authors chosen by the editorial team present their work during a fast-paced podium session.	National Ballroom	
3:35 p.m.	A Within-Host Modeling Framework for SARS-CoV-2 Infe Support Intranasal Vaccine Strategies Jeffry Schroeter, Ph.D., Applied Research Associates, Raleigh, North Carolina	ection to	
3:45 p.m.	<i>In Vitro Regional Deposition of Nasal Sprays in an Ideali</i> <i>Comparison With In Vivo Gamma Scintigraphy</i> John Chen, B.Sc., University of Alberta, Alberta, Canada	zed Nasal Inlet:	
3:55 p.m.	<i>Influence of Gender on the Disposition of OHet72 after</i> <i>Pulmonary Administration</i> Margaret Bourlon, B.Eng, University of Oklahoma, Oklahoma City, Oklahoma		
4:05 p.m.	<i>The Combined Effect of Valve and Spray Orifice Diameter On pMDI Plume Force</i> Benjamin Myatt, Ph.D., Kindeva Drug Delivery, Loughborough, United Kingdor		



### MONDAY • MAY 2 • 2022 continued

	SESSION 3 (continued)	National Ballroom
4:15 p.m.	<b>A Continuous Process for Blending Dry Powders for Inhalation</b> Jamie Spahn, B.S., The University of Texas at Austin, Austin, Texas	
4:25 p.m.	<i>The Application of Artificial Intelligence in Designing Dry Powde</i> <i>for Inhalation Using Thin-Film-Freezing Technology</i> Junhuang Jiang, TBD., The University of Texas at Austin, Austin, Texas	ers
4:35 p.m.	<i>In Vitro Performance of A Pediatric Air-Jet DPI Delivering a Spray-Dried Antibiotic Formulation</i> Dale Farkas, Ph.D., Virginia Commonwealth University, Richmond, Virginia	
4:45 p.m.	<i>Microfluidic Aerosol Generation: Development of a Next Genera</i> <i>Hand-Held Device for Aerosol Drug Delivery</i> Jason Brenker, Ph.D., Monash University, Melbourne, Australia	ation
4:55 p.m.	Presentation of VCU RDD Peter R. Byron Graduate Student Av	ward
5:00 p.m.	SESSION 3 ENDS	
5:00 p.m 7:00 p.m	Posters and Exhibition Evening Reception <sup>II</sup> Bringing Science, Innovation and People Together	nternational Ballroom

## TUESDAY • MAY 3 • 2022

7:30 a.m.	Continental Breakfast Registration	Rotunda & Ballroom Commons International Ballroom Foyer
8:30 a.m 12:00 p.m.	SESSION 4: Project Green MDI Next Generation Metered Dose Inhalers: Promise for our Patients and the Planet Co-Chairs: Stephen W. Stein, M.Sc., Kindeva Drug Delivery David A. Lewis, Ph.D., OzUK	National Ballroom
8:30 a.m.	Evolving Legislation Associated with Fluorinated Hydroco used in Metered Dose Inhalers Maureen Hardwick, J.D., On Behalf of International Pharmaceutical Aerosol Consc Washington DC	·



	TUESDAY • MAY 3 • 2022 continued	
9:00 a.m.	The Formulator's Guide to Transitioning to Low Global Warming Potential pMDIs Jag Shur, Ph.D., Nanonharm, an Antar Pharma Company, Newport, Unite	National Ballroom
9:30 a.m.	Nanopharm, an Aptar Pharma Company, Newport, United Kingdom Considerations for Robust Clinical and Commercial Manufacturing of Next Generation Sustainable Metered Dose Inhalers	
	Nick Atkinson, MIET, Recipharm, Holmes Chapel, United Kingdom	
10:00 a.m.	REFRESHMENTS	International Ballroom
10:30 a.m.	Safety, Tolerance and Pharmacokinetics of HFA-152a in Healthy Volunteers Philip Kuehl, Ph.D., Lovelace Biomedical, Albuquerque, New Mexico	National Ballroom
11:00 a.m.	<b>A Journey to Net Zero Using Solstice Air</b> Ryan Hulse, Ph.D., Honeywell, Buffalo, New York	
11:30 a.m.	Explore with Experts Next Generation Metered Dose Inhalers: Promise for our Patients and the Planet Co-Chairs: Stephen W. Stein, M.Sc. and David A. Lewis, Ph.D. Panel: Nick Atkinson, Ph.D., Recipharm Maureen Hardwick, Ph.D., IPAC Ryan Hulse, Ph.D., Honeywell Philip Kuehl, Ph.D., Lovelace Biomedical John N. Pritchard, Ph.D., Inspiring Strategies Jag Shur, Ph.D., Nanopharm	
12:00 p.m.	SESSION 4 ENDS	
12:00 p.m 2.00 p.m	Posters and Exhibition "Grab and Go" Lunch	International Ballroom
2:00 p.m 5:00 p.m	SESSION 5: WORKSHOPS	Lobby and Lower Lobby Level Meeting Rooms
5.00 p.m	The following companies will host 45-minute interactive presentations on new technologies related to aerosol dru delivery. Meeting participants may select and attend THF	Jg
	Refreshments will be available throughout the afternoon	
2:00 p.m.	Workshop Selection #1	
3:00 p.m	Workshop Selection #2	
4:00 p.m.	Workshop Selection #3	



## TUESDAY • MAY 3 • 2022 continued

Aptar 🚄	US And EU Drug-device Combination Product Regulations in the OINDP Field	Royal Dublin B
Catalent	Development of High Dose Powders for Inhalation	Olympic A
dh	Sustainable pMDI Filling and Flammable Propellant Handling	Congressional A
HAT PRESSPART	Future Challenges Facing Metered Dose Inhalers: Sustainability & The Effective Delivery of Complex Molecules	Congressional B
Intertek InterDustry Agnanet	Developing Biologics for Respiratory Delivery – Real World Lessons and Examples	Royal Dublin A
	Sustainable pMDIs – Is Nirvana Within Reach?	Augusta A
Zephex*	HFA-152a Roadmap to Commercialization	Augusta B
LONZO Sovel Monocolan	From Concept to Product: A Novel Dry Powder Treatment for Lung Cancer	Olympic B
MedPharm	DeRisking Pharmaceutical Nasal Development Programs	Colonial A
perlen packaging	Microdosing Inhalation Powders: Enabling DPI Prototypes for Early Product Development	Royal Melbourne A
	Automated pMDI Handling for Dose Content Uniformity Testing and Aerodynamic Particle Size Distribition	Royal Melbourne B
Recipharm	Soft Mist Inhalers (SMIs): Addressing Unmet Needs in Inhaled Product Development	Colonial B
5:00 p.m	SESSION 5 ENDS	
5:00 - 7:00 p.m	Posters and Exhibition Evening Reception Bringing Science, Innovation and People Together	International Ballroom
7:30–9:00 p.m	AAPS Inhalation & Nasal Community	ChampionsGate
🤊 aaps	Inhaled Flecainide: Snatching Success from the Jaws of D The Story of Flexibility, Ingenuity, and a Little Luck Mick Hurrey, Ph.D., InCarda Therapeutics	Defeat.



WEDNESDAY • MAY 4 • 2022			
8:00 a.m.	Continental Breakfast	Rotunda & Ballroom Commons	
	<b>NETWORKING AND RECREATION BREAK</b> Participants can play golf, tennis, visit the spa or relax.		
2:00 p.m 3:00 p.m	SESSION 6: Aqueous Advances: Renewed Interest in Nebulizer	National Ballroom Therapy	
	Moderator: John S. Patton, Ph.D.		
2:00 p.m.	<i>Next Generation Nebulized Therapy:</i> <i>Opportunities for New Treatments and Devices</i> John N. Pritchard Ph.D., Inspiring Strategies, Leicester, United Kingdom		
2:30 p.m.	<i>Fast Track to Phase 1: Rethinking Nebulizers in Early Pha</i> Paul M. Young Ph.D., Ab Initio Pharma, Sydney, Australia and	ase Development	
	Matthew Reed Ph.D., Coelus, Albuquerque, New Mexico		
3:00 p.m	SESSION 6 ENDS • REFRESHMENTS	Rotunda & Ballroom Commons	
3:30 p.m 5:00 p.m.	SESSION 7: Designing DPIs - Perfecting Powders	National Ballroom	
·	Moderator: Kimberly Shepard, Ph.D.		
3:30 p.m.	<b>An In Silico Modeling Framework to Predict</b> <b>Particle Dynamics in Dry Powder Inhalers</b> Yu Feng Ph.D., Oklahoma State University, Stillwater, Oklahoma		
4:00 p.m.	<i>Targeting Lung Tumors using a Novel Inhaled Excipient</i> <i>Enhanced Growth Gemcitabine Dry Powder Formulatio</i> Bryce Beverlin II Ph.D., Quench Medical, Saint Paul, Minnesota		
4:30 p.m.	<i>Improved Targeting of Dry Powder Formulations</i> <i>of Inhaled Corticosteroids to Children</i> Jeffry Weers Ph.D., Respira Therapeutics, San Francisco, California		
5:00 p.m	SESSION 6 ENDS		
6:30 p.m.	Cocktail Reception	Ballroom Commons	
7:30 p.m.	Dinner and Dancing	International Ballroom	
	Sponsored by Our Conference Supporters		

### THURSDAY • MAY 5 • 2022

7:30 a.m.	Continental Breakfast Registration	Rotunda & Ballroom Commons International Ballroom Foyer
9:00 p.m 12:00 p.m.	SESSION 8: Regulatory, Science and Technology Innovation. Enabling Novel and Improved OINDP Design, Development Coordinated with International Pharmaceutical Aerosol Consortium on Regulation & Science (IPAC-RS) Co-Chairs: Vijay Sethuraman, Ph.D., Genentech Jennifer Wylie, Ph.D., Merck	National Ballroom
9:00 a.m	<i>User Centric Device Design: Designing for Behavior Chang</i> Paul Upham, B.Sc., Genentech, San Francisco, California	e
9:30 a.m	Carbon Neutral: TRELEGY ELLIPTA from Concept to Deliver Richard K. Henderson, Ph.D., GlaxoSmithKline, Brentford, United Kingdom	у
10:00 a.m.	REFRESHMENTS	Rotunda & Ballroom Commons
10:30 a.m.	<i>Perspectives on the Evolving Regulatory Landscape</i> <i>for Inhaled and Nasal Products</i> Prasad Peri, Ph.D., Teva Pharmaceuticals, West Chester, Pennsylvania	
11:00 a.m.	A Critical Assessment of the Application of Advanced Data in Inhaled and Nasal Product Development Will Ganley, Ph.D., Nanopharm, an Aptar Pharma Company, Newport, United	
11:30 a.m.	Explore with Experts: Regulatory, Science and Technology Innovation: Enabling Novel and Improved OINDP Design, Development Co-Chairs: Vijay Sethuraman Ph.D., and Jennifer Wylie, Ph.D. Panel: Will Ganley, Ph.D., Nanopharm Richard K. Henderson, Ph.D., GlaxoSmithKline Prasad Peri, Ph.D., Teva Pharmaceuticals Paul Upham, B.Sc., Genentech	nt and Manufacturing
12:00 p.m	SESSION 8 ENDS	
12:00 p.m 2:00 p.m.	Luncheon Sponsored by Our Conference Supporters	Ballroom Commons

